PTO/SB/21 (modified) Approved for use through xx/xx/xx, OMB 0651-0031 Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE U.S. Department of Commerce **Application Number** 09/851,593 Patent and Trademark Office Filing Date May 8, 2001 TRANSMITTAL FORM First Named Inventor Tian Shen (to be used for all correspondence during pendency of **Group Art Unit Number** 2633 filed application) **Examiner Name** Not yet known Total Number of Pages in This Submission **Attorney Docket Number** 20852-05135 **ENCLOSURES** (check all that apply) Fee Transmittal Form (in duplicate) Issue Fee Transmittal Check Enclosed Letter to Chief Draftsperson Return Receipt Postcard Formal Drawing(s): Response to Notice to File Missing Parts [ ] Sheet(s) of Figure(s) [ ] Assignment & Recordation Cover Sheet Appeal Communication to Board of Appeals and Declaration Appeal Communication to Group Power of Attorney (Appeal Notice, Brief, Reply Brief) **Application Data Sheet** Information Disclosure Statement & PTO-1449 Certified Copy of Priority Document(s) After Allowance Communication to Group Copies of IDS Cited References RR & UU Request for Corrected Filing Receipt Request for Correction of Recorded Assignment Amendment/Response: [ ] Page(s) After Final Status Request Revocation and Substitute Power of Attorney REMARKS: \*Does not include cited reference pages. SIGNATURE OF ATTORNEY OR AGENT Signature: Dated: Ø/30/0/ Eileen A. Lehmann, Reg No. 39,272 Attorney/Reg. No.: **CERTIFICATE OF MAILING** I hereby certify that this correspondence, including the enclosures identified above, is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on the date shown below. If the Express

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APPLICANTS:

Tian Shen, Robert B. Clarke, Thomas J. Roman, David B. Upham,

David A. Pechner, Laurence J. Newell, Jr.

APPLICATION NO.:

09/851,593

FILING DATE:

May 8, 2001

TITLE:

Variable Rate High-Speed Input And Output In Optical

**Communication Networks** 

**EXAMINER:** 

Not yet known

GROUP ART UNIT:

2633

ATTY. DKT. NO.:

20852-05135

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## INFORMATION DISCLOSURE STATEMENT Under 37 CFR §§ 1.56 and 1.97-98

SIR:

Pursuant to the provisions of 37 CFR §§ 1.56 and 1.97-98, enclosed herewith is modified form PTO-1449 listing references for consideration by the Examiner. A copy is enclosed herewith of each listed reference which may be material to the examination of this application, and with respect to which there may be a duty to disclose.

The filing of this Information Disclosure Statement shall not be construed as a representation regarding the completeness of the list of references, or that inclusion of a reference in this list is an admission that it is prior art or is pertinent to this application, or that a search has been made, or as an admission that the information listed is, or may be considered to be, material to patentability, or that no other material information exists, and shall not be construed as an admission against interest in any manner.

This application relies, under 35 U.S.C. § 120, on the earlier filing date of prior applications Serial No. 09/405,367, filed on September 24, 1999 and Serial No. 09/571,349, filed on May 16, 2000, and the references cited therein are hereby

referenced, but are not required to be provided in this application under 37 CFR § 1.98(d).

The Inf	format	ion Disc	closure S	Statement submitted herewith is being filed:							
	$\boxtimes$	within three months of the filing date of the application, or date of entry into									
		the nat	tional sta	age of an international application, or before the mailing date of							
		a first	official	action on the merits, whichever event last occurred; OR							
		before	before the mailing of a first official action after the filing of a request for								
		contin	ued exai	mination (RCE) under 37 CFR § 1.114;							
		after th	nree mo	nths of the filing date of this national application or the date of							
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		but be	fore the	mailing date of the first to occur of either:							
		(1)	a fina	l action under 37 CFR §1.113; OR							
		(2)	a noti	ce of allowance under 37 CFR §1.311; AND							
			attach	ned hereto is the fee of \$180, as set forth under 37 CFR §1.17(p),							
			for su	bmission of this Information Disclosure Statement under 37							
			CFR.	§ 1.97(c); OR							
			Appli	cant certifies pursuant to 37 CFR § 1.97(e) that:							
				each item of information contained in this Information							
				Disclosure Statement was cited in a communication from a							
				foreign patent office in a counterpart foreign application not							
				more than three months prior to the filing of this Statement;							
•				OR							
				no item of information contained in this Information							
				Disclosure Statement was cited in a communication from a							
				foreign patent office in a counterpart foreign application or, to							
				the knowledge of the person signing this certification after							
				making reasonable inquiry, was known to any individual							
				designated under 37 CFR § 1.56(c) more than three months							
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		[1]		l action under 37 CFR § 1.113; OR							
		[2]		ce of allowance under 37 CFR § 1.311; AND							
			in acc	cordance with the requirements of 37 CFR & 1.97(d):							

L	Applicant certifies pursuant to 37 CFR. § 1.57(c) that.
	each item of information contained in this Information
	Disclosure Statement was cited in a communication from a
	foreign patent office in a counterpart foreign application not
	more than three months prior to the filing of this Statement;
	OR
	no item of information contained in this Information
	Disclosure Statement was cited in a communication from a
	foreign patent office in a counterpart foreign application or, to
	the knowledge of the person signing this certification after
·	making reasonable inquiry, was known to any individual
	designated under 37 CFR § 1.56(c) more than three months
	prior to the filing of this Statement; AND
	Applicant hereby respectfully petitions for the consideration of
	the accompanying Information Disclosure Statement under 37 CFR
	§ 1.97(d)(2); AND
	Applicant submits the petition fee of \$180 as set forth in 37 CFR §
	1.17(p).
Each item of in	nformation contained in this Information Disclosure Statement was
cited in a communication fron	a foreign patent office in a counterpart application, and the
communication was not receive	red by any individual designated in 37 CFR § 1.56(c) more than thirty
days prior to the filing of this	Information Disclosure Statement. 37 CFR § 1.704(d).
Applicant subr	nits that no fee is required for the consideration of the accompanying
Information Disclosure Staten	ient.
Consideration of the li	sted references and favorable action are solicited.
	Respectfully submitted,
	Tian Shen, Robert B. Clarke, Thomas J. Roman,
	David B. Upham, David A. Pechner, Laurence J.
	Newell, Jr.
1 +00	2001 By: Eleen a. Lehmeinn
Dated: August 30,	By: <u>Clem U. Selmmenn</u> Eileen A. Lehmann, Reg. No.: 39,272
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Sheet 1 of 4

FORM PTO-1449 (REV. 6-89)		U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office			Attomey's Docket No. 20852-05135		Serial No. 09/851,593		
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	С	5,680,238	10/21/97	1	Masuda	359	132	11/09/95	
	D	5,596,436	01/21/97	Sa	argis et al.	359	132	07/14/95	
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FORM PTO-1449 (REV. 6-89)  U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office			Attorney's Docket No. 20852-05		Serial No. 09/851,593				
INFORMATION DISCLOSURE CITATION			Applicant Tian Shen et al.						
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	Т	Cambrian Systems Cor copyright 1997 (printed	poration, "	OPTera Metro	Optical Networkin	ng Platform P	roduct Info		
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Technology Center 2600 Sheet 3 of 4 **FORM PTO-1449** U.S. DEPARTMENT OF COMMERCE Attomey's Docket No. Serial No. PRADEMA 20852-05135 (REV. 6-89) 09/851,593 Patent and Trademark Office INFORMATION DISCLOSURE CITATION Applicant Tian Shen et al. Filing Date Group Art Unit (Use several sheets if necessary) May 8, 2001 2633 **U.S. PATENT DOCUMENTS Document Number** Date Name Class Subclass Filing Date If Examiner Initial Appropriate FOREIGN PATENT DOCUMENTS **Document** Country Class **Subclass** Translation Number Yes No OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.) I-Cube, "IQX Family Data Sheet", January 1999, pp. 1-58 Jones-Bey, H., "Optical switches pursue crossconnect markets," Laser Focus World, May 1998, pp. Kanno, N., K. Ito, "Fiber Optic Subcarrier Multiplexing Transport for Broadband Subscriber Distribution Network", IEEE Intl. Conference on Communications Boston ICC/89 World Prosperity Through Communications, June 11-14, 1989, Boston, MA, Volume 2, pp. 996-1003 Kavehrad, M., E. Savov, "Fiber-Optic Transmission of Microwave 64-QAM Signals", IEEE Journal on Selected Areas in Communications, Vol. 8, No. 7, September 1990, pp. 1320-1326 Ken-ichi Kitavama. "Subarrier Multiplexing Based Signaling and Access Control in Optical FDM Networks", IEEE Global Telecommunications Conference (GLOBECOM'95, Singapore), Nov. 1995, pp. 1996-2002 Kitayama, Ken-ichi, "Subarrier Multiplexing Based Signaling and Access Control in Optical FDM Networks", IEEE Global Telecommunications Conference (GLOBECOM'95, Singapore), Nov. 1995, pp. 1996-2002 LeBer, J., M. LeLigne, "Digital Transmission on Electric Subcarriers in Optical Fiber LL Videocommunication Systems", Optics Communications, October 15, 1987, Volume 64, No. 2, pp. 120-Li, J., K. Yano, "Development of AM/QAM Hybrid Optical SCM Transmission System", Proc Intl Conf. On Communication Technology ICCT '96, May 5-7,1996, Beijing, China, Volume 1, pp. 575-577 Lu, X., G.E. Bodeep, T.E. Darcie, "Broad-Band AM-VSB/64 QAM Cable TV System Over Hybrid Fiber/Coax Network," IEEE Photonics Technology Letters, Vol. 7, No. 4, April 1995, pp. 330-332 Nakamura, Y., H. Ohtsuka, S. Aikawa, H. Takanashi, "Advanced Techniques for Super Multi-Carrier Digital Microwave Radio With Trellis-Coded 256 QAM Modulation", NTT Radio Communication Systems Laboratories), pp. 389-394 Nishikido, J. et al., "Multiwavelength Securely-Authenticated Broadcast Network" 11th International Conference on Integrated Optics and Optical Fibre Communications, 23<sup>rd</sup> European Conference on Optical Communications IOOC-ECOC 97 (Conf. Publ. No. 448), Sept. 22, 1997, pp. 17-20 QQ Nortel, "S/DMS Transport Node OC-192 System," Issue 1, September 25, 1995, pp. 1-25 Nosu, K, Toba, K Inoue, Oda, K. "100 channel optical FDM technologies and its application to optical 4 FDM channel-based network". IEEE J. Lightwave Technology. 11. May 1993. pp. 764-776 EXAMINER DATE CONSIDERED

EXAMINER: Initial if references considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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